

To: Brachtl, Megan[Brachtl.Megan@epa.gov]
From: Jones, Rhea
Sent: Fri 7/18/2014 3:52:39 PM
Subject: FW: REVISED MATERIALS: Designations for 2012 PM2.5 NAAQS: materials for today's meeting at noon
[PMDBriefing_pre120day_MCCabe_071814b.pptx](#)
[2013 PM AreaNames_wCounties_2013_wOAQPS Rec 071614 Table1.pdf](#)
[2013 PM AreaNames_wCounties_2013_wOAQPS Rec 071614 Table2.pdf](#)
[2013 PM AreaNames_wCounties_2013_wOAQPS Rec 071614 Table3.pdf](#)
[PM Designation Maps 07182014 v2.pdf](#)

Fyi, power point slides are updated from the previous version, and maps are new.

From: South, Peter
Sent: Friday, July 18, 2014 11:28 AM
To: Alfaro, Carlos; Alston, Lala; Dougherty, Joseph-J; Edwards, Crystal; Henigin, Mary; Koerber, Mike; OAR Briefings; Rush, Alan; Sanders, Maria; Walker, Jean
Cc: Wayland, Richard; Mathias, Scott; Jones, Rhea; Naess, Liz; Weinstock, Lewis; Wilcox, Geoffrey; Schneeberg, Sara; Palma, Elizabeth; Heilig, Johnetta; Johnson, Yvonne W; Ling, Michael; Long, Pam; Lorang, Phil; Santiago, Juan
Subject: REVISED MATERIALS: Designations for 2012 PM2.5 NAAQS: materials for today's meeting at noon

See following for update on materials for today's noon meeting:

- Changes were made to the briefing slides: changes made on slides 12, 13, 20 and 22 (first attached doc--PPT);
- No changes were made to tables (docs 2-4--PDFs); and
- New maps are attached (last attached doc--PDF);

Sorry for the inconvenience. Thanks and feel free to call me with any questions.

Pete South

OAR/OAQPS/IO

U.S. EPA

office: [REDACTED] (b)(6)

cell: [REDACTED] (b)(6)

From: South, Peter

Sent: Thursday, July 17, 2014 6:04 PM

To: Alfaro, Carlos; Alston, Lala; Dougherty, Joseph-J; Edwards, Crystal; Henigin, Mary; Koerber, Mike; OAR Briefings; Rush, Alan; Sanders, Maria; South, Peter; Walker, Jean

Cc: Wayland, Richard; Mathias, Scott; Jones, Rhea; Naess, Liz; Weinstock, Lewis; Wilcox, Geoffrey; Schneeberg, Sara; Palma, Elizabeth; Heilig, Johnetta; Johnson, Yvonne W; Ling, Michael; Long, Pam; Lorang, Phil; Santiago, Juan

Subject: Designations for 2012 PM2.5 NAAQS: materials for tomorrow's meeting with Janet/Tom

I have attached the briefing slides (and three PDF attachments) in prep for tomorrow's meeting with Janet on the 2012 PM2.5 designations. Note we will be sending additional documents (maps) in the morning.

Please call me with any questions relating to this information.

Thanks.

Pete South

OAR/OAQPS/IO

U.S. EPA

office: [REDACTED] (b)(6)

cell: [REDACTED] (b)(6)

Intended Area Designations for the 2012 annual PM2.5 NAAQS - Meeting

FILE MEETING INSERT FORMAT TEXT REVIEW

Save & Delete Close Copy to My Calendar Forward Appointment Scheduling Assistant Meeting Notes Accept Tentative Decline Propose Respond Show As: Busy Reminder: 15 minu

Accepted by Sanders, Maria on 7/15/2014 3:12 PM. Conflicts with another appointment.

Organizer McCabe, Janet

Subject Intended Area Designations for the 2012 annual PM2.5 NAAQS

Location WJC-N 5400 | Video - Conference: [REDACTED] Participant Code: [REDACTED] (b)(6)

Start time Fri 7/18/2014 12:00 PM All day event

End time Fri 7/18/2014 1:15 PM

To: Powers, Tom; Page, Steve; Koerber, Mike; Wood, Anna; Wayland, Richard; Mathias, Scott; Jones, Rhea; Palma, Elizabeth; Keating, Martha; Na Wilcox, Geoff; Schneeberg, Sara; Moraff, Ken; Filippeli, John; Esher, Diana; Banister, Beverly; Czerniak, George; Stenger, Wren; Weber, Rebecca; C Richard; Fernandez, Cristina; Davis, ScottR; Mooney, John; Tyson, Mary; Worley, Gregg; Donaldson, Guy; Tapp, Joshua; Morales, Monica; Drake, K Anne; Simcox, Alison; Fradkin, Kenneth; Pino, Maria; Huey, Joel; Summerhayes, John; Walser, John; Bhesania, Amy; Ostigaard, Crystal; Kelly, John

McCabe Meeting Request - Inten...

To: Palma, Elizabeth[Palma.Elizabeth@epa.gov]
From: Jones, Rhea
Sent: Thur 7/17/2014 12:23:03 PM
Subject: RE: Briefing Slides for PMD Page Briefing
PMDBriefing_pre120day_Page_071714.pptx

Reviewed up to slide 9 with some minor editing

From: Palma, Elizabeth
Sent: Wednesday, July 16, 2014 8:17 PM
To: Mathias, Scott; Jones, Rhea
Cc: Keating, Martha; Solomon, Douglas
Subject: Briefing Slides for PMD Page Briefing

Scott / Rhea –

I am attaching the briefing slides and table attachments for tomorrow’s discussion with Steve.
Doug will forward the maps in the am.

Not Responsive

Not Responsive

Not Responsive

A couple of notes:

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Ex. 5 - Deliberative

I did not count unclassifiable counties, just areas, as county counting would involve all of TN (excluding Hamilton) and much of GA (

Ex. 5 - Attorney Client

Ex. 5 - Attorney Client

Ex. 5 - Attorney Client).

Did not do a thorough proof of slides – must get home while my key still works.

Beth

To: Solomon, Douglas[Solomon.Douglas@epa.gov]; Wayland, Richard[Wayland.Richard@epa.gov]
From: Mathias, Scott
Sent: Fri 7/18/2014 8:00:11 PM
Subject: FW: Design Value Summary and Maps for Atlanta and Columbus

Interpretation please...?

Scott Mathias | Associate Director, Air Quality Policy Division | U.S. EPA, RTP, NC 27711 | 919.541.5310

From: Gettle, Jeanecanne
Sent: Friday, July 18, 2014 3:44 PM
To: Mathias, Scott
Cc: Solomon, Douglas; Palma, Elizabeth; Jones, Rhea; Keating, Martha; Wayland, Richard; Worley, Gregg; Davis, Scott; Benjamin, Lynora; Rinck, Todd
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

Scott,

Gregg Worley, the Branch Chief for our monitoring group, provided the following:

“...the concern that we have with how well data from lower DV monitors correlate with a monitor that has been historically the high monitor that measures both urban and local source PM. Having said that, we did do the imputation and bootstrapping analysis using the S. Dekalb monitor to the Fire Station #8 monitor and the bootstrapping analysis did have a close correlation. Yorkville is an upwind monitor that is more akin to measuring background. We have not specifically investigated the correlations with the other sites but expect that

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Thanks

jeanneanne

From: Mathias, Scott
Sent: Friday, July 18, 2014 2:47 PM
To: Gettle, Jeaneanne
Cc: Solomon, Douglas; Palma, Elizabeth; Jones, Rhea; Keating, Martha; Wayland, Richard
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

Jeaneanne,

Based on this info, we think the policy options for Atlanta are:

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Ex. 5 - Deliberative

Scott Mathias | Associate Director, Air Quality Policy Division | U.S. EPA, RTP, NC 27711 | 919.541.5310

From: Worley, Gregg
Sent: Friday, July 18, 2014 2:39 PM
To: Wayland, Richard; Gettle, Jeaneanne; Rinck, Todd
Cc: Mathias, Scott; Solomon, Douglas; Palma, Elizabeth; Jones, Rhea
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

Chet,

We know that Fire Station #8 will not have a valid design value after 2014 data is included. Every other monitor in the Atlanta area should be able to have a valid design value.

For Columbus, all three monitors on the Georgia side will have valid design values if they continue to collect complete data in 2014.

Gregg

From: Wayland, Richard
Sent: Friday, July 18, 2014 2:24 PM
To: Worley, Gregg; Gettle, Jeanneane; Rinck, Todd
Cc: Mathias, Scott; Solomon, Douglas; Palma, Elizabeth; Jones, Rhea
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

Thanks Greg.

Ex. 5 - Deliberative

Ex. 5 - Deliberative

There are 4 key sites as we see it that are somewhat critical.

Ex. 5 - Deliberative

Ex. 5 - Deliberative

So, if you guys have any insight there, that would be helpful.

In Columbus,

Ex. 5 - Deliberative

Ex. 5 - Deliberative

If you can let us know on those what the changes are for each of those sites, then that would probably help in getting everyone on the same page.

Thanks!

Chet

Richard A. "Chet" Wayland | Director | Air Quality Analysis Division - Mail Code C304-02 | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Desk: 919-541-4603 | Cell: 919-606-0548 | Fax: 919-685-3377 |

From: Worley, Gregg
Sent: Friday, July 18, 2014 12:02 PM
To: Gettle, Jeaneanne; Rinck, Todd; Wayland, Richard
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

I think the confusion is that in some documents, the Athens, GA monitor (which has a valid attaining design value) is listed as being part of the Atlanta area. It is in the new CSA but not the CBSA. Also, the Doraville, E. Rivers, and Powder Springs monitors were approved for shut down at the end of 2012 in the annual network plan review.

Gregg

From: Gettle, Jeaneanne
Sent: Friday, July 18, 2014 11:47 AM
To: Worley, Gregg; Rinck, Todd
Subject: FW: Design Value Summary and Maps for Atlanta and Columbus

From: Wayland, Richard
Sent: Friday, July 18, 2014 11:42 AM
To: Gettle, Jeaneanne; Mathias, Scott
Subject: RE: Design Value Summary and Maps for Atlanta and Columbus

Quick question... I thought originally we had 4 sites in 2011-2013 that were valid for ATL, but the table only shows 3. Is that correct?

Chet

Richard A. "Chet" Wayland | Director | Air Quality Analysis Division - Mail Code C304-02 | Office of Air Quality Planning & Standards | U.S. Environmental Protection Agency | Research Triangle Park, NC 27711 | Desk: 919-541-4603 | Cell: 919-606-0548 | Fax: 919-685-3377 |

From: Gettle, Jeaneanne
Sent: Friday, July 18, 2014 11:24 AM
To: Mathias, Scott; Wayland, Richard
Subject: FW: Design Value Summary and Maps for Atlanta and Columbus

Scott,

Per our conversation this morning, here is information on Atlanta and Columbus. With regard to Albany and Brunswick there are not valid design values for 2010 – 2012.

Let me know if you need additional information.

Thanks

jeaneanne

From: Garver, Daniel
Sent: Friday, July 18, 2014 11:11 AM
To: Gettle, Jeaneanne
Cc: Worley, Gregg; Rinck, Todd; Palmer, Darren
Subject: Design Value Summary and Maps for Atlanta and Columbus

Jeaneanne,

Here is the summary information that you requested for Atlanta and Columbus. There is a table summarizing the design values of each site for 2010-2012 and 2011-2013, and a map for each area.

Please note that the maps only show sites that are currently operational. The design value table still includes three sites in Atlanta that were approved to shut down at the end of 2012. If you have any questions about these materials, please let me know.

Thanks,

Daniel Garver

Environmental Scientist

US EPA Region 4

61 Forsyth Street, SW

Atlanta, GA 30303

 (b)(6)

To: Solomon, Douglas[Solomon.Douglas@epa.gov]
From: Mathias, Scott
Sent: Wed 7/16/2014 12:32:50 PM
Subject: FW: PM Designations - data gap associated with 2011 storm event

fyi

Scott Mathias | Associate Director, Air Quality Policy Division | U.S. EPA, RTP, NC 27711 | 919.541.5310

From: Gettle, Jeaneanne
Sent: Wednesday, July 16, 2014 8:29 AM
To: Mathias, Scott
Subject: RE: PM Designations - data gap associated with 2011 storm event

No problem.

From: Mathias, Scott
Sent: Wednesday, July 16, 2014 8:26 AM
To: Gettle, Jeaneanne
Cc: Banister, Beverly; Kemker, Carol; Worley, Gregg; Rinck, Todd; Davis, Scott; Benjamin, Lynora; Wayland, Richard; Naess, Liz; Wood, Anna; Jones, Rhea
Subject: RE: PM Designations - data gap associated with 2011 storm event

Jeaneanne,

It was a long day for me yesterday, which would hopefully explain why I cited the wrong regulatory text – I had SO₂ too much in mind. The relevant regulatory text is Appendix N, 4.1(d) (rather than Appendix T). Sorry if that created any confusion.

40 CFR Part 50, Appendix N, 4.1 Annual PM_{2.5} NAAQS

(d) An annual PM_{2.5} NAAQS DV based on data that do not meet the completeness criteria stated in 4(b) and also do not satisfy the test conditions specified in section 4(c), may also be considered valid with the approval of, or at the initiative of, the EPA Administrator, who may consider factors such as monitoring site closures/moves, monitoring diligence, the consistency and levels of the daily values that are available, and nearby concentrations in determining whether to use such data.

Scott Mathias | Associate Director, Air Quality Policy Division | U.S. EPA, RTP, NC 27711 | 919.541.5310

From: Gettle, Jeaneanne

Sent: Wednesday, July 16, 2014 8:14 AM

To: Mathias, Scott

Cc: Banister, Beverly; Kemker, Carol; Worley, Gregg; Rinck, Todd; Davis, Scott; Benjamin, Lynorae; Wayland, Richard; Naess, Liz; Wood, Anna; Jones, Rhea

Subject: RE: PM Designations - data gap associated with 2011 storm event

Scott,

Thanks to both you and Chet for looking at this and getting back to me so quickly. We will consider the issues/options you have discussed and let you know if this changes in any way how we are proceeding.

Thanks again.

Jeaneanne

From: Mathias, Scott

Sent: Tuesday, July 15, 2014 6:08 PM

To: Gettle, Jeaneanne

Cc: Banister, Beverly; Kemker, Carol; Worley, Gregg; Rinck, Todd; Davis, Scott; Benjamin, Lynorae; Wayland, Richard; Naess, Liz; Wood, Anna; Jones, Rhea

Subject: RE: PM Designations - data gap associated with 2011 storm event

Jeaneanne,

Chet and I have reviewed this information and have discussed this in more detail.

Ex. 5 - Deliberative

Ex. 5 - Deliberative

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Ex. 5 - Deliberative

Ex. 5 - Deliberative

We are happy to further discuss this with you and your colleagues if you wish.

40 CFR PART 50, APPENDIX T, 3(d)

(d) A 1-hour primary standard design value based on data that do not meet the completeness criteria

stated in 3(b) and also do not satisfy section 3(c), may also be considered valid with the approval of, or at the initiative of, the Administrator, who may consider factors such as monitoring site closures/moves, monitoring diligence, the consistency and levels of the valid concentration measurements that are available, and nearby concentrations in determining whether to use such data.

Scott Mathias | Associate Director, Air Quality Policy Division | U.S. EPA, RTP, NC 27711 | 919.541.5310

From: Gettle, Jeaneanne

Sent: Thursday, July 10, 2014 1:26 PM

To: Wayland, Richard; Mathias, Scott

Cc: Banister, Beverly; Kemker, Carol; Worley, Gregg; Rinck, Todd; Davis, Scott; Benjamin, Lynorae

Subject: FW: PM Designations - data gap associated with 2011 storm event

Chet and Scott,

Per our conversations, here is a summary of the impact of the 2011 winter storm in GA.

Please let us know if you have any questions.

Thanks

jeaneanne

Details on Aftermath of Winter Storm in January 2011

<http://www.srh.noaa.gov/ffc/?n=20110109winterstorm>

The January 9-10, 2011, winter storm encompassed large portions of Georgia causing power outages affecting monitoring sites and the state's laboratory (see the picture

below). The Georgia EPD lab is located in NE Atlanta – Norcross, GA (Gwinnett County). Their lab provides the PM2.5 gravimetric weighing service for EPD's PM2.5 ambient air monitoring program. PM2.5 filter samples across the state were affected from January 9 through about February 24, 2011. The actual number of missed sampling days due to the ice storm will vary with each site as all sites are not on the same sampling frequency. This can range from 8-45 missed samples per monitor. The impact of the storm on the lab is illustrated by the amount of data flagged by in the first quarter versus the second quarter of 2011. In the first quarter of 2011 when the storm occurred 650 out of 1371 total samples (47.4%) were flagged for lab error. In the second quarter of 2011 one of 1367 total samples (0.00073%) were flagged for lab error.

The state included the following information on the storm on the impacts of the storm in a draft technical analysis provided to R4.

“It is important to note that all of the Georgia monitors, except for South DeKalb, have incomplete data for the first quarter of 2011. This was due to circumstances out of EPD's control that resulted from a snow and ice storm from January 9th through 11th, 2011. The storm caused problems with the power and environmental control systems for the EPD Laboratory which lost power on and off during the following week. The systems were brought back on line by Friday, January 14th; however, the weighing rooms could not be stabilized until February 2nd, 24 days after the storm began. In order to meet Federal ambient monitor sampling deadlines, both pre- and post-sample weighing had to be conducted during this period. Furthermore, samples could not have been prepared or taken through the preparation process at another laboratory (commercial, Federal, State or academic) and still meet Federal sampling requirements.”

While a large portion of the lab was able to be opened in a reasonable time after the storm, the state indicated in its report the temperature and humidity of the PM2.5 gravimetric weigh lab was not able to be stabilized until February 2nd. In reviewing the data, EPA Region 4 believes there is evidence that the lab was experiencing control issues up to February 24. This affected sample preparation and analysis into late February for all but one site in the state (that site has a continuous FEM).

The good news is that many areas in Georgia were still able to have validated annual design values even when considering this event. However, some MSAs have monitors with additional incomplete quarters for the 2011-2013 design value period: Savannah, Albany, Valdosta and one monitor in the Columbus MSA.

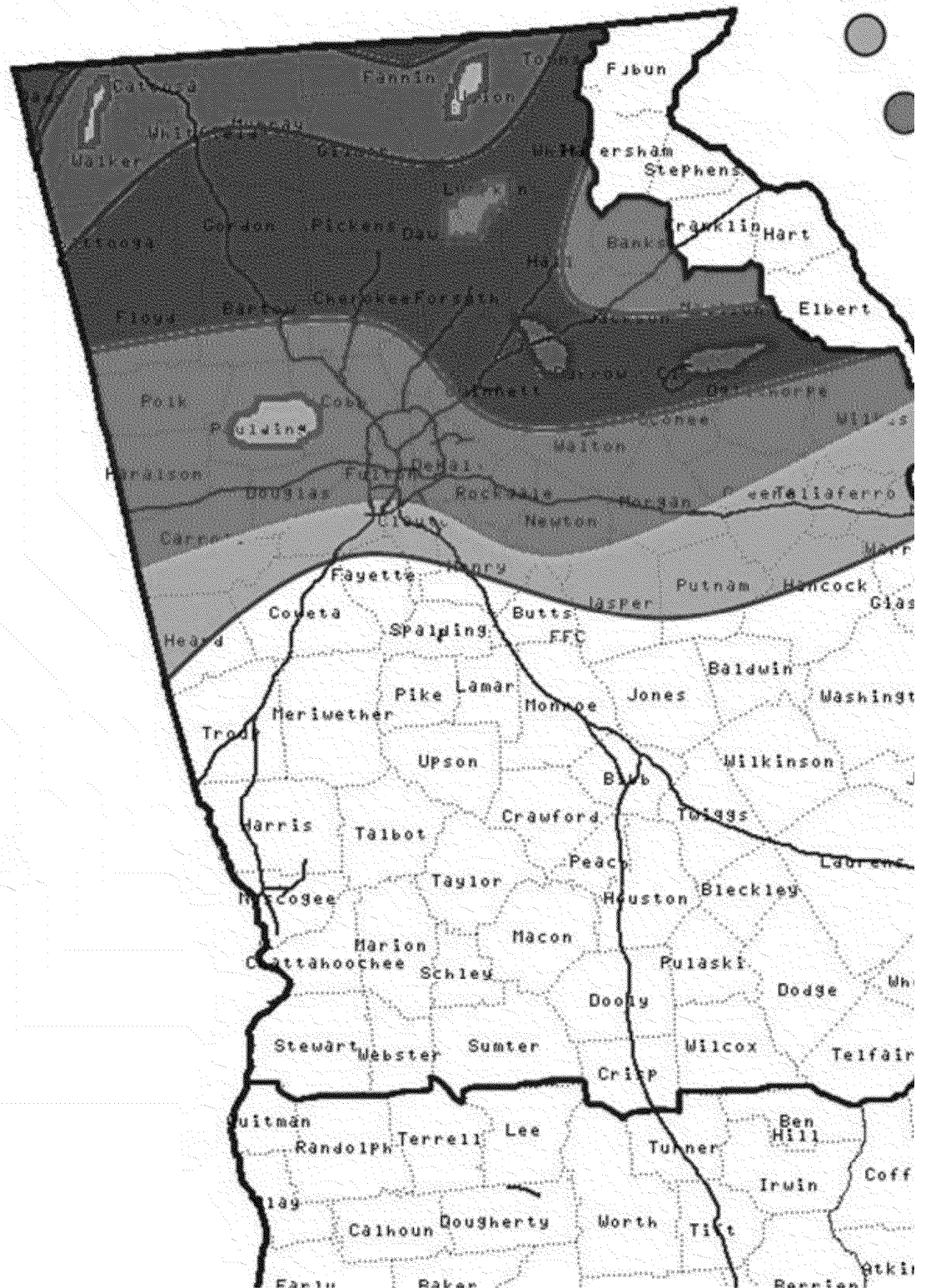
To demonstrate the impact of this one natural disaster, we conducted data substitution and treated the data as if the 1st quarter 2011 was a force majeure event. Looking at the data in this manner we found that Savannah, Valdosta and Columbus would have validated attaining annual design values. Their 'test' design values are 11.1, 9.7 and 11.2, respectively. However, we could not validate Albany's design value. The test design value was 12.6. There was just too much missing data – three quarters in 2012 had completeness issues.

We have looked at the data and have determined that if we can consider "force majeure" for the 1st quarter 2011 and subsequently apply normal data substitution methods prescribed in 40 CFR Part 50 Appendix N, these areas (except for Columbus where we have demonstrated attainment via bootstrapping and Albany where we would still have incomplete data) would also be in attainment of the PM2.5 annual NAAQS of 12.0 ug/m3.

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Here is a picture showing the snow and sleet accumulation during the storm. The GA lab is located in the blue area which received 4-6 inches of snow/ice.

Snow and Sleet Accumulation 1/9-10/



AREA	STATUS W/O FORCE MAJEURE APPLIED	STATUS W FORCE MAJEURE APPLIED
Albany	Incomplete Data	Incomplete Data
Athens	Attaining Design Value	Attaining Design Value
Atlanta	Incomplete Data	Attaining; Bootstrapping Needed for One Monitor
Augusta	Incomplete Data	Attaining Design Value
Brunswick	Incomplete Data	Incomplete Data
Chattanooga (Ga. Portion)	Attaining Design Value	Attaining Design Value
Columbus	Bootstrapping Conducted	Attaining Design Value w/ Data Sub
Gainesville	Attaining Design Value	Attaining Design Value
Macon	Attaining Design Value	Attaining Design Value
Rome	Attaining Design Value	Attaining Design Value
Savannah	Incomplete Data	Attaining Design Value w/ Data Sub
Valdosta	Incomplete Data	Attaining Design Value w/ Data Sub
Warner Robins	Attaining Design Value	Attaining Design Value
Washington County	Incomplete Data	Attaining Design Value
Wilkinson County	Attaining Design Value	Attaining Design Value